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(54) **FABRIC TREATING APPLIANCE**
COMPRISING A SCRUBBING TOOL

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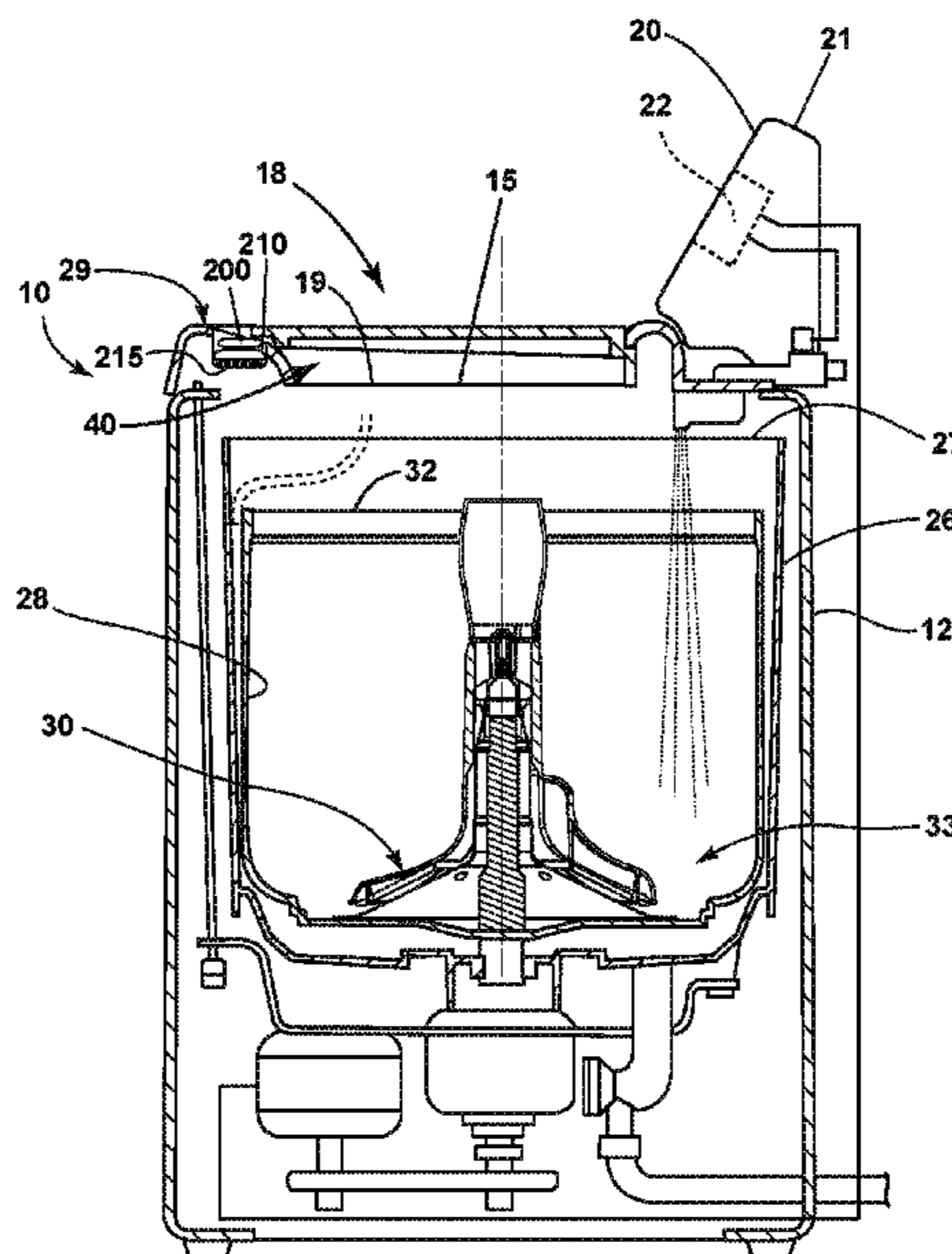
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(57) **ABSTRACT**

A fabric treating appliance includes a cabinet defining an interior and having a top wall defining an access opening. A cover is provided that is movable relative to the cabinet between an open position and a closed position to selectively close the access opening. A tub is located within the interior and includes an open top aligned with the access opening. A rotatable basket is located within the tub and has a loading opening aligned with the open top and the access opening. A top wall extends between the cabinet and the tub.

20 Claims, 8 Drawing Sheets



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continuation of application No. 15/602,169, filed on May 23, 2017, now Pat. No. 10,233,587.

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D06F 23/04 (2006.01)

(52) **U.S. Cl.**

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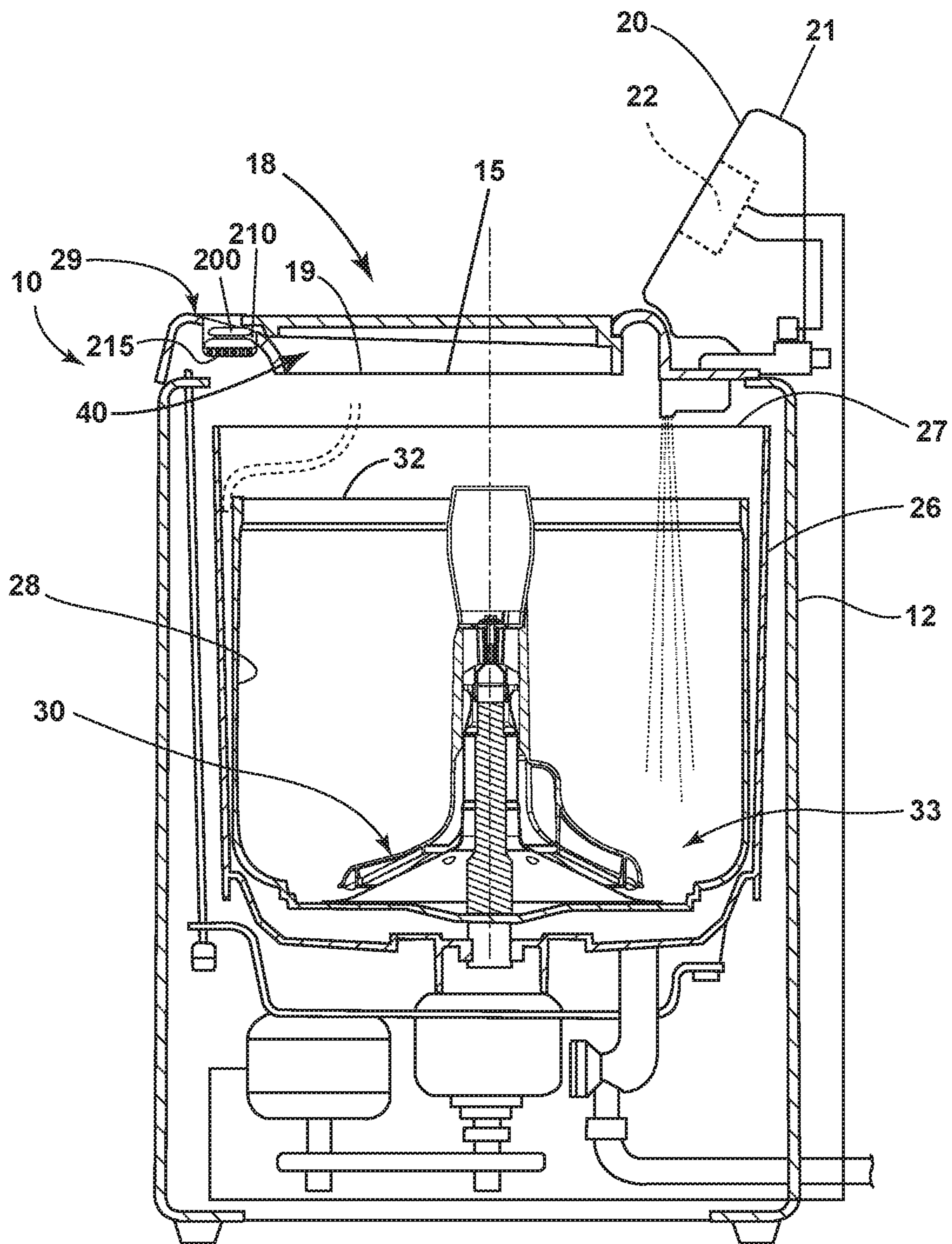


FIG. 1

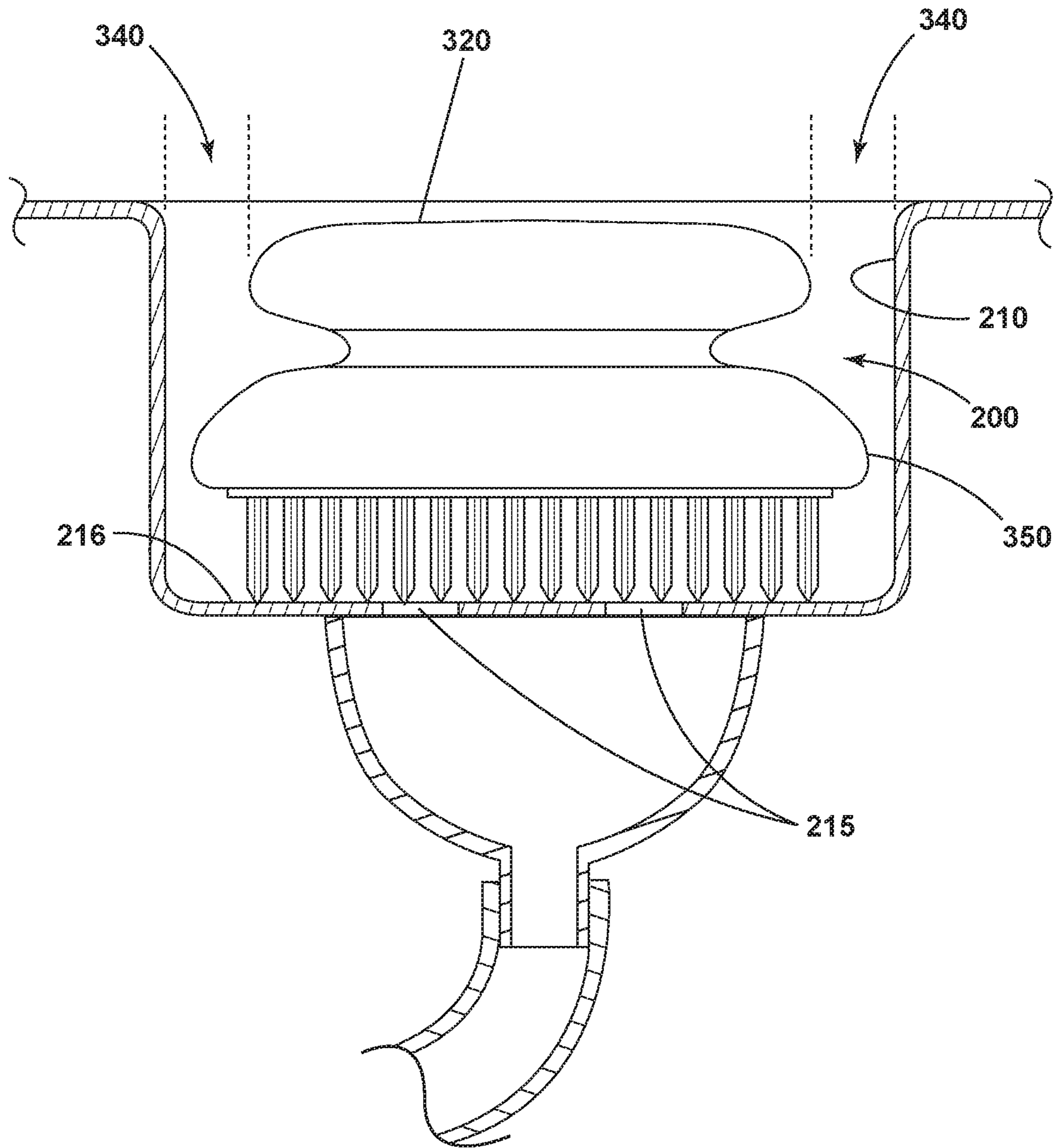


FIG. 3A

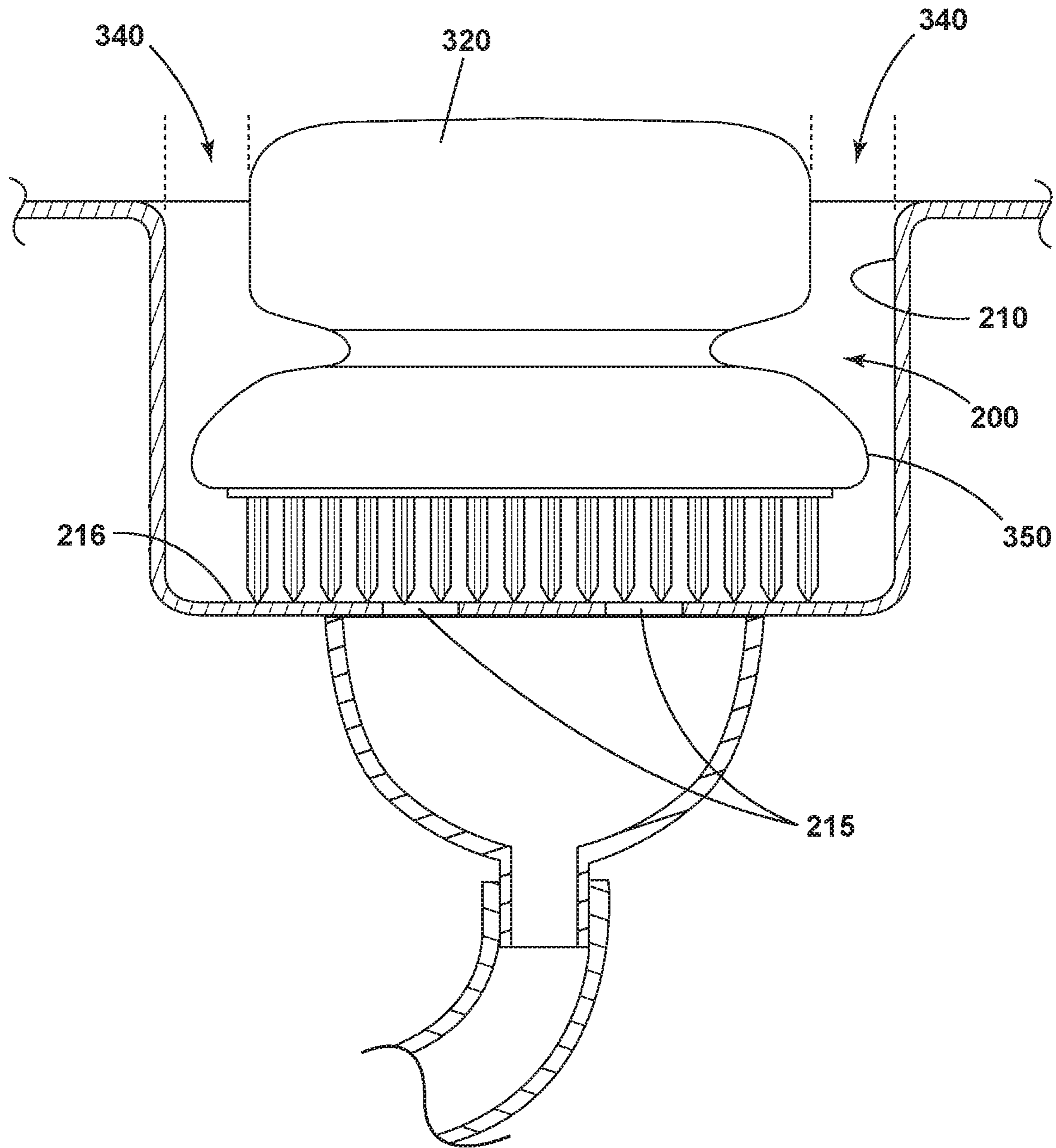


FIG. 3B

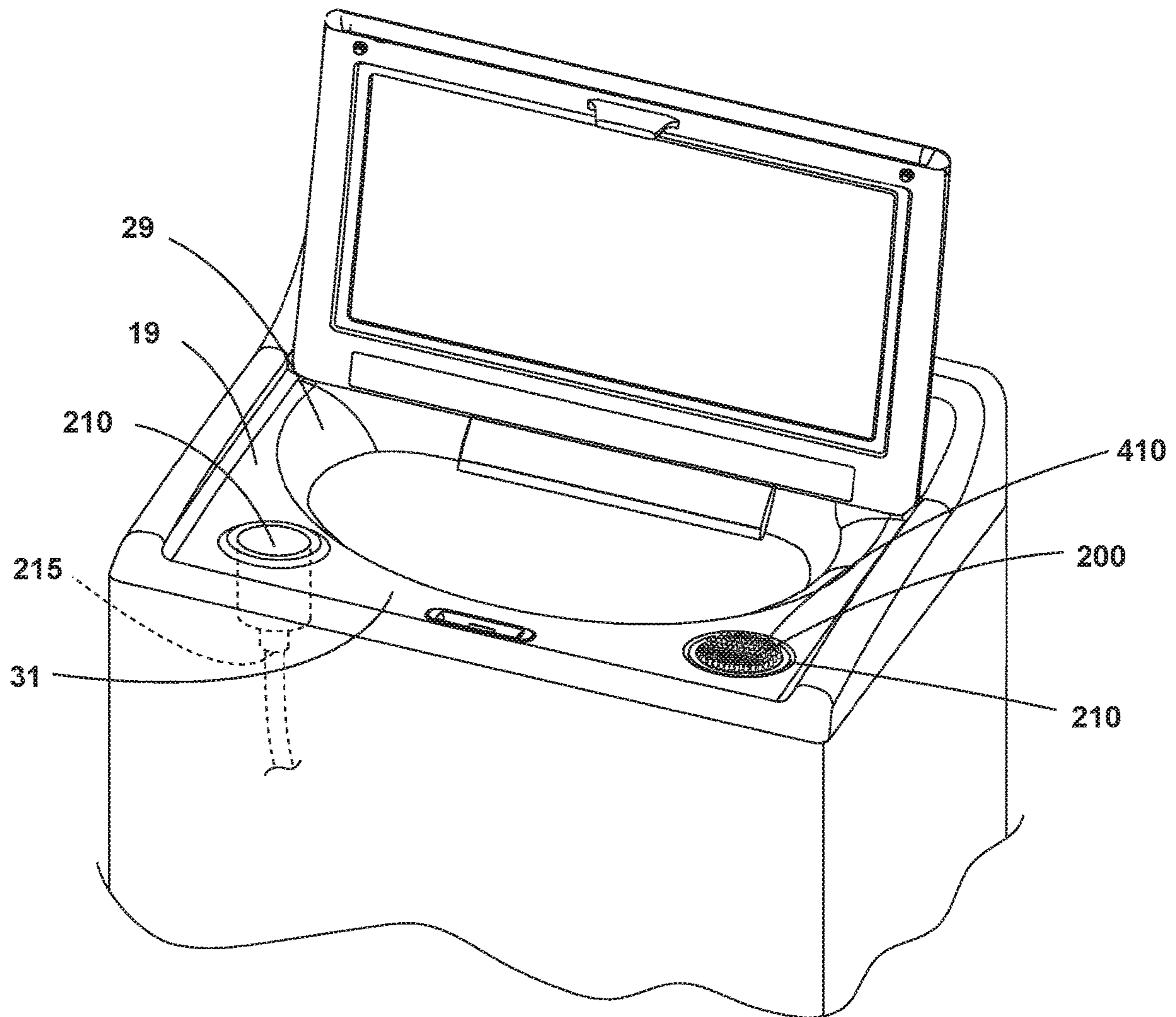


FIG. 4

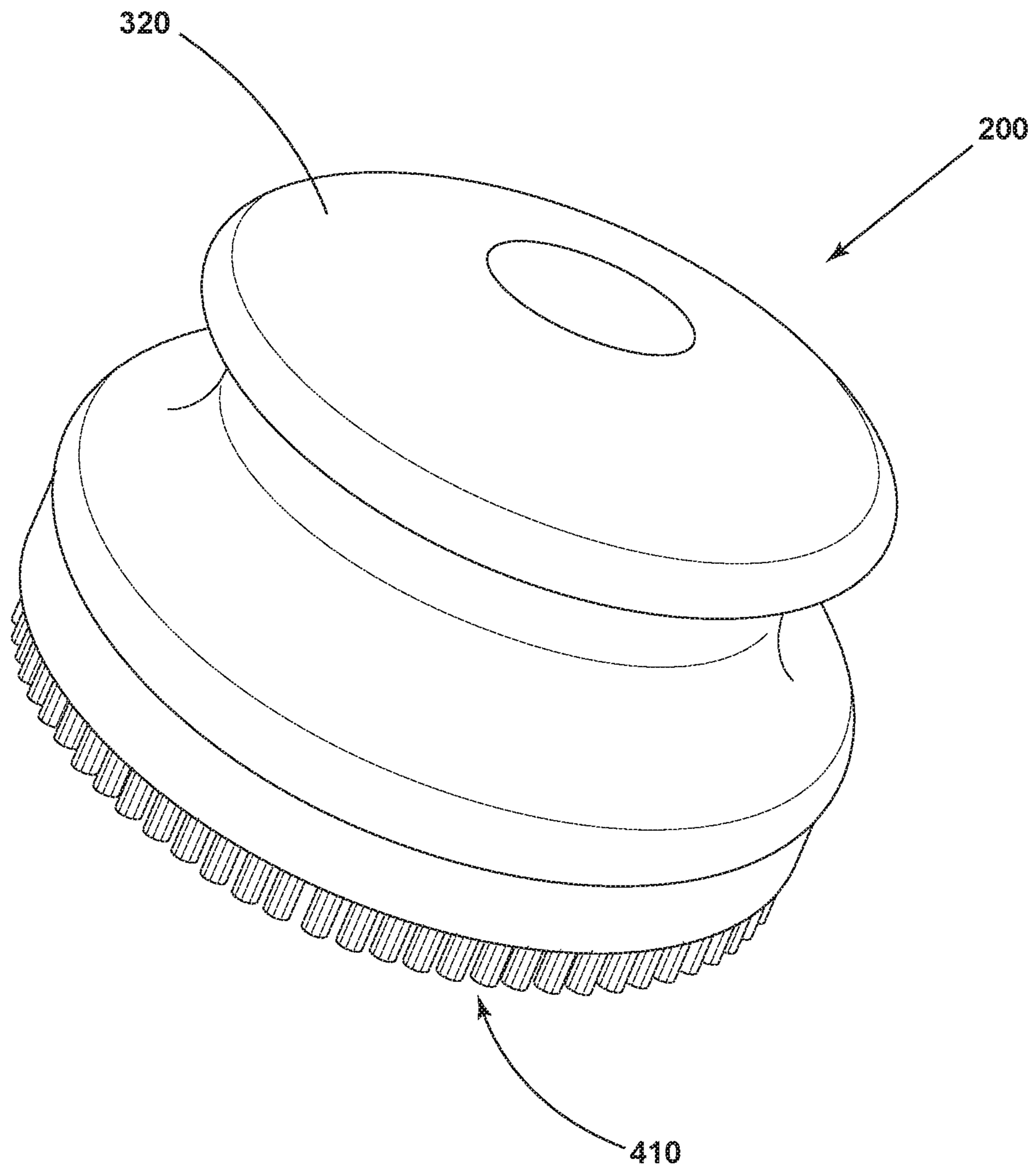


FIG. 5

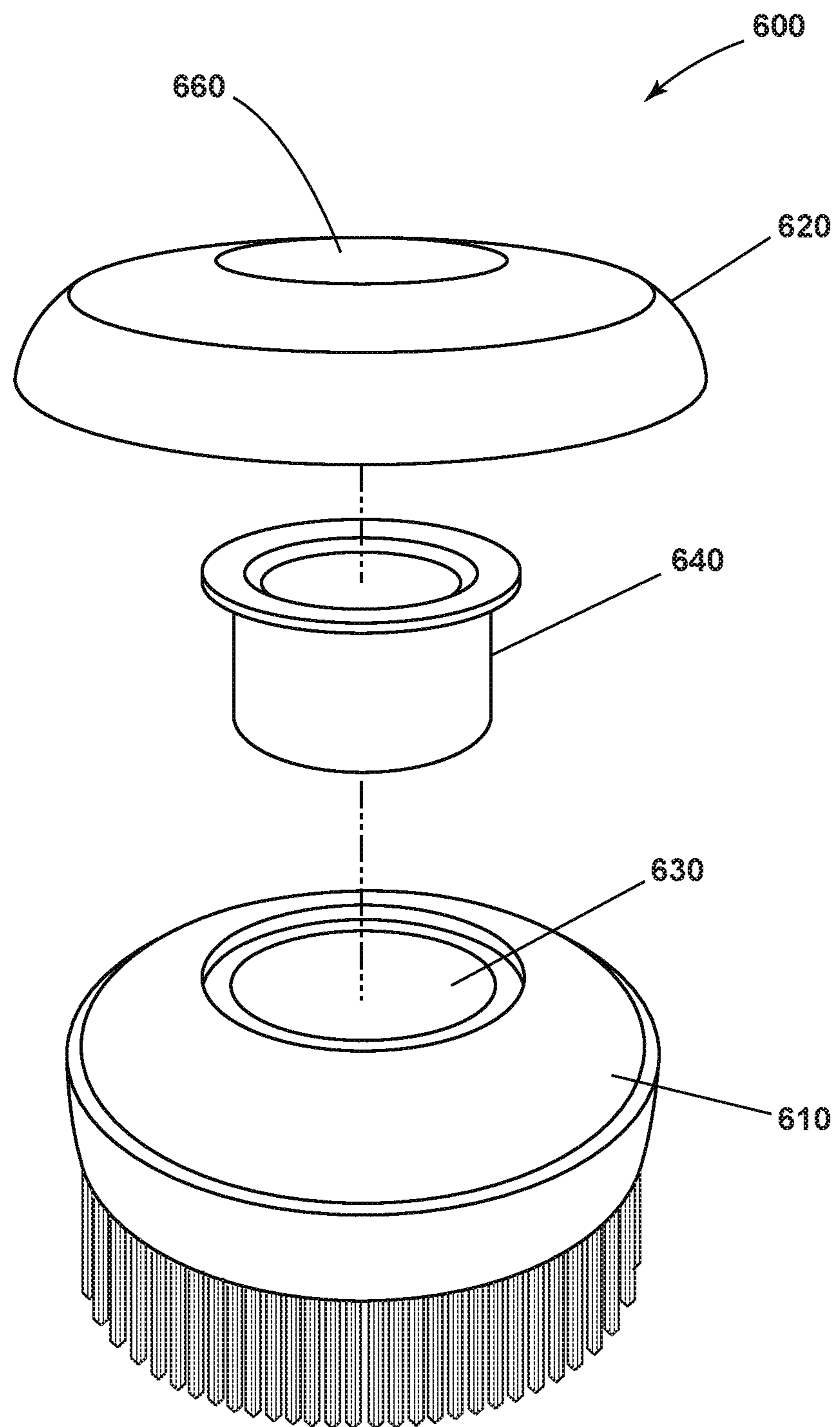


FIG. 6

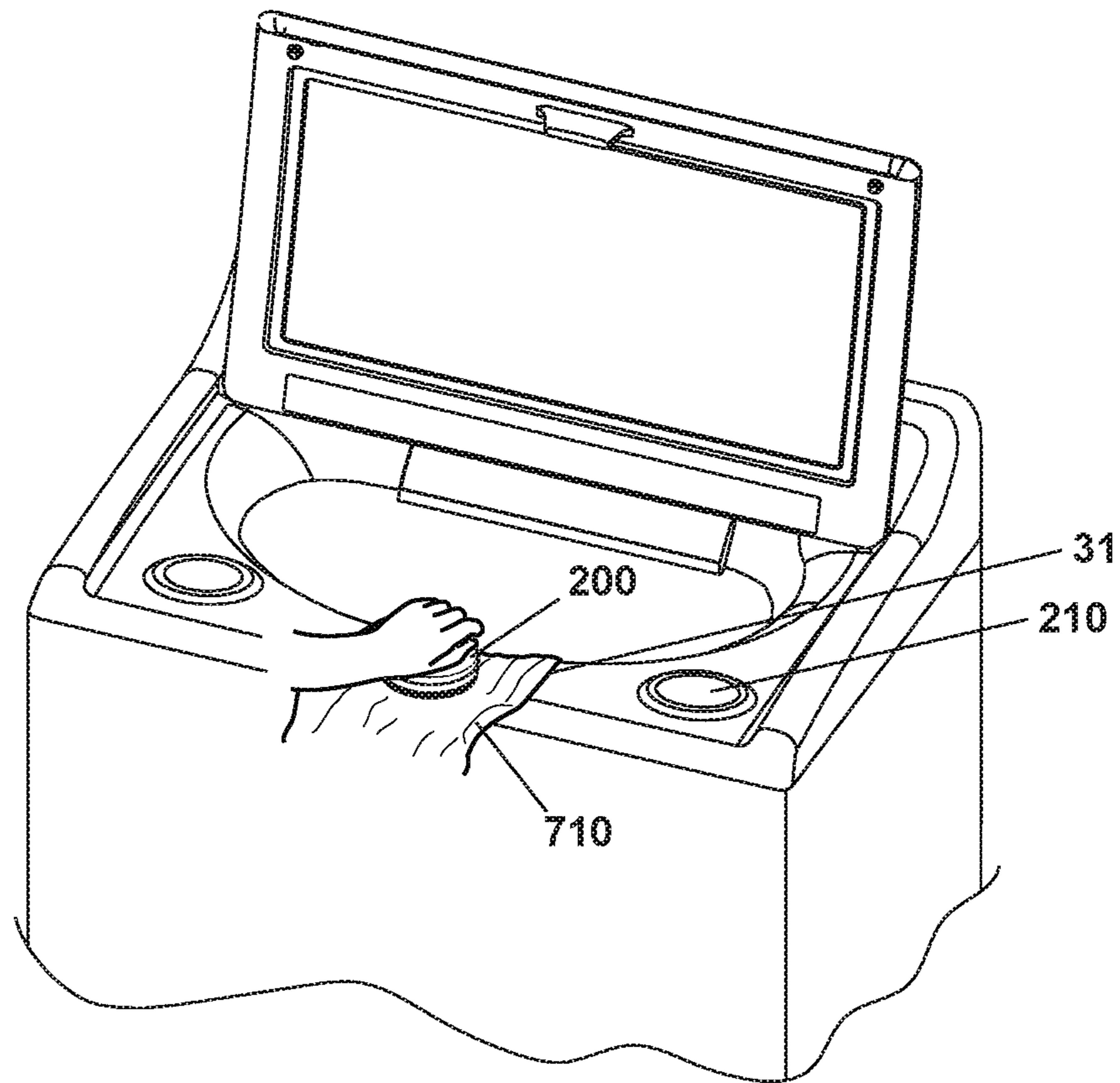


FIG. 7A

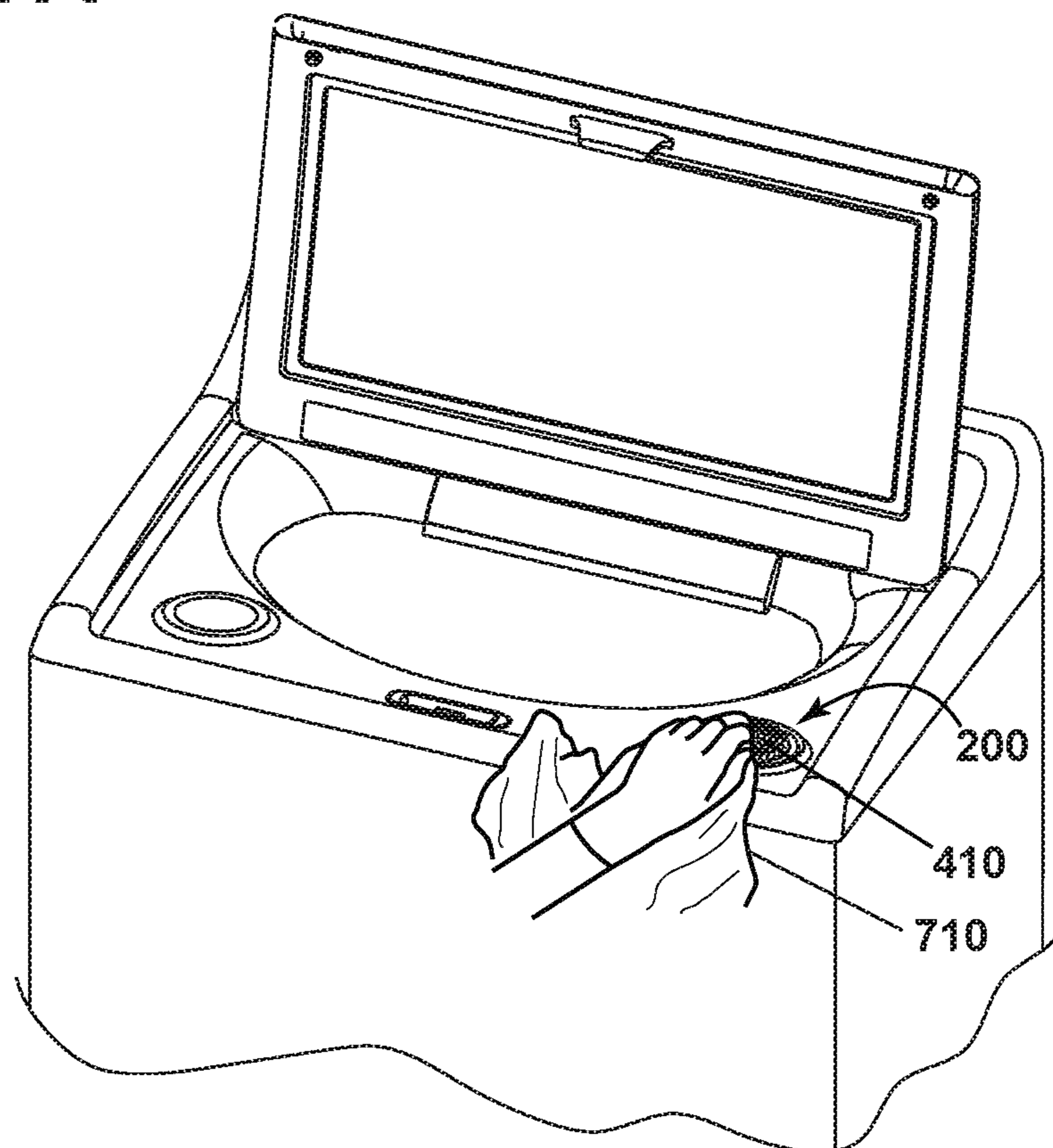


FIG. 7B

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FABRIC TREATING APPLIANCE COMPRISING A SCRUBBING TOOL

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. patent application Ser. No. 16/263,863, filed Jan. 31, 2019, now U.S. Pat. No. 10,544,538, issued Jan. 28, 2020, which is a continuation of U.S. patent application Ser. No. 15/602,169, filed May 23, 2017, now U.S. Pat. No. 10,233,587, issued Mar. 19, 2019, both of which are incorporated herein by reference in their entirety.

BACKGROUND OF THE INVENTION

Fabric treating appliances typically operate to clean fabric by placing the fabric in contact with cleaning fluid such as soapy water, and providing relative motion between the fabric and the fluid. Commonly a fabric mover such as an agitator provides mechanical energy to a load of fabric immersed in the cleaning fluid by agitating the fabric load in a manner that both jostles the fabric in the fluid and circulates the fluid through the fabric. A fabric treating appliance for home use can perform a select programmed series of operations on fabric placed in a basket or drum located within the interior of the machine. However, it can occur that none of a selection of preprogrammed wash cycles is thought by the washing machine operator to be sufficient to fully remove certain stains on the fabric being laundered. The operator can choose to address such stains manually before adding the stained fabric to the fabric load.

SUMMARY

The disclosure relates to a fabric treating appliance comprising: a cabinet defining an interior and having a top wall defining an access opening; a cover movable relative to the cabinet between opened and closed positions to selectively close the access opening; a tub located within the interior and having an open top aligned with the access opening; a rotatable basket located within the tub and having a loading opening aligned with the open top and the access opening; a top wall extending between at least one of the cabinet and the tub; a scrubbing tool seat recessed in the top wall; and a scrubbing tool comprising a gripper portion and a set of bristles mounted on the tool opposite the gripper portion, with the scrubbing tool removably disposed in the scrubbing tool seat such that the gripper portion is oriented up and the height of the gripper portion is such that at least a portion of the gripper portion extends above the top wall.

In another aspect, the disclosure relates to a fabric treating appliance comprising: a cabinet defining an interior and having a top wall defining an access opening; a cover movable relative to the cabinet between opened and closed positions to selectively close the access opening; a tub located within the interior and having an open top aligned with the access opening; a rotatable basket located within the tub and having a loading opening aligned with the open top and the access opening; a top wall extending between at least one of the cabinet and the tub; a scrubbing tool seat recessed in the top wall and comprising an aperture in the seat fluidly connected to the tub to define a drain in fluid communication with the tub; and a scrubbing tool removably disposed in the scrubbing tool seat, wherein excess liquid from the scrubbing tool can be drained through the aperture and into the tub, and the scrubbing tool having a

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gripper portion oriented up relative to the seat and the height of the gripper portion is such that the at least a portion of the gripper portion extends above the top wall.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings:

FIG. 1 is a schematic sectional view of an exemplary embodiment of fabric treating appliance in the form of a washing machine.

FIG. 2 is a perspective view of the top of an exemplary embodiment of the washing machine of FIG. 1 with a scrubbing tool housed in a scrubbing tool seat.

FIG. 3A is a cross sectional view taken along line 3-3 of FIG. 2 of a scrubbing tool seat and scrubbing tool housed in the seat.

FIG. 3B is a view similar to FIG. 3A and illustrating an alternative scrubbing tool housed in the seat.

FIG. 4 is a perspective view of the top of an exemplary embodiment of the washing machine of FIG. 1 with a scrubbing tool housed bristles up in a scrubbing tool seat.

FIG. 5 is a perspective view of a non-dispensing scrubbing tool.

FIG. 6 is an exploded, perspective view of a dispensing scrubbing tool having a reservoir.

FIG. 7A is a perspective view depicting exemplary use of a scrubbing tool.

FIG. 7B is a perspective view depicting an alternate use of a scrubbing tool.

DESCRIPTION

FIG. 1 is a schematic view of an exemplary embodiment of a fabric treating appliance in the form of a vertical axis washing machine 10. The washing machine 10 can include a cabinet 12 defining an interior for housing the operational parts of the washing machine, together with a hinged cover 18. Housed within the cabinet 12 is a wash tub 26, a basket 28, and an agitator assembly 30. The tub 26 holds the wash liquid that is used in the operation of the washing machine 10. The tub 26 is located within the interior of the cabinet 12 and has an open top 27. The basket 28 holds the fabric during operation of the washing machine 10. The basket 28 is located within the tub 26 and has a loading opening 32 aligned with the open top 27 of the tub 26. The basket 28 can be thought of as defining a treating chamber 33 in which the fabric is treated. The cabinet 12 can also have a top wall 19 comprising a shroud 29 provided at the top of the cabinet 12 and defining an access opening 15, which aligns with both the open top 27 of the tub 26 and the loading opening 32 of the basket 28, which items of clothing or other fabric can pass when placing the fabric items into the basket 28 for washing. The shroud 29 can curve downwards toward the treating chamber 33 to direct fabric items into the basket 28. The shroud 29 can overlie a portion of the tub 26 and basket 28 such that the fabric items do not fall between the basket 28 and the tub 26. The top wall 19 and shroud 29 can also have a recess defining a scrubbing tool seat 210 where a scrubbing tool 200 can be removably disposed in the seat 210. The scrubbing tool seat 210 can have a drain 215 that is fluidly connected to the tub 26. A gap 40 can also formed between the shroud 29 and the hinged cover 18. A console 21 having control panel 20 which includes the operating controls 22 for the washer is illustrated on the upper, rear of the cabinet 12, but can be located elsewhere.

FIG. 2 is a perspective view of the top of the fabric treating appliance 10 with the hinged cover 18 shown in an

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open condition to illustrate a scrubbing tool **200** and a scrubbing tool seat **210** in which the scrubbing tool **200** can be stored. The scrubbing tool **200** and scrubbing tool seat **210** can be located in the top wall **19** or the shroud **29** of cabinet **12** and there can be multiple scrubbing tool seat **210** locations for user convenience. While FIG. 2 depicts two scrubbing tool seats **210**, one on each side of the wash tub **28** and toward the front of the cabinet **12**, the invention is not limited to this arrangement. One scrubbing tool seat **210** is sufficient for housing a scrubbing tool **200** and its location in the top wall **19** or shroud **29** is not limited, although in an exemplary embodiment a scrubbing tool seat **210** can be located in a front portion of the shroud **29** or top wall **19** for easy accessibility by a user.

The recessed scrubbing tool seat **210** can have a drain **215** comprising one or more openings to allow residual liquid in the scrubbing tool seat **210** to drain into the tub **26** or wash basket **28**. The drain **215** can be fluidly connected to the tub as it is positioned over and above the tub **26** thereby allowing any excess liquid to gravity feed directly into the tub **26** (as shown in FIG. 1). In this embodiment, the floor **216** of the scrubbing tool seat **210** can be slanted toward the drain **215** to allow excess liquid to easily drain from the scrubbing tool seat **210**. Alternatively, and as illustrated in FIG. 2, the drain **215** can be fluidly connected to the tub **26** via mechanical connections and couplings. In this embodiment, the scrubbing tool seat **210** can be configured to act as a reservoir for dispensing detergent, softener, or other fabric treating liquid during a wash cycle.

A scrubbing surface **31** can be provided on the top wall **19** or shroud **29** of the cabinet **12**. The scrubbing surface **31** can include a smooth or textured area for supporting material being pretreated. The scrubbing surface **31** can also be located in an area adjacent to or contiguous to the scrubbing tool seat **210**. The scrubbing surface **31** can be configured to allow for the passing of excess pretreating liquid through the scrubbing surface during use. For example, the scrubbing surface **31** can include grooves, channels, or perforations through which the pretreating liquid can drain out (not shown). Such perforations can comprise a plurality of small holes, thin slots, or the like, in any desired arrangement. The scrubbing surface **31** and draining elements can be arranged to drain the excess pretreating liquid into the treating chamber **33** or the scrubbing tool seat **210**. The scrubbing surface can also comprise perforated material such as mesh or polymeric materials, or other material that is conducive to allowing a liquid to pass through. The perforated material or mesh can be made of plastic, metal or other suitable material.

The details of the scrubbing tool **200** and scrubbing tool seat **210** are best seen with respect to FIG. 3A, which illustrates a cross-sectional view of the scrubbing tool seat **210** with scrubbing tool **200** placed therein. It should be recognized that the scrubbing tool **200** could be virtually any design and height that conforms to the relative size of the scrubbing tool seat **210**. The scrubbing tool's **200** height could extend above the height of the scrubbing tool seat **210**, or conversely, the scrubbing tool's **200** height might not extend to the height of the scrubbing tool seat **210** in an at rest position. In an exemplary embodiment, the height of the scrubbing tool **200** is generally intended to be flush with or slightly extending or protruding above the top of the scrubbing tool seat **210** in an at rest position. This configuration allows the hinged cover **18** to move to a fully closed position while the scrubbing tool **200** rests in the scrubbing tool seat **210**. This configuration also allows a user access to the bristles **410** of the scrubbing tool **200** for pretreating pur-

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poses when the cover **18** is in an open position and the scrubbing tool **200** is stored in a bristles-up orientation. In an alternate configuration wherein a gap **40** is present between the top of shroud **29** and the bottom of hinged cover **18**, the height of the scrubbing tool **200** could be designed to extend above or protrude above the scrubbing tool seat **210** while still allowing the hinged cover **18** to move to a fully closed position.

The spacing between the inner diameter of the seat **210** and the top or gripper portion **320** of the scrubbing tool **200** can form a gap **340**, which is sufficient to permit a user to access or grab the gripper portion **320** of scrubbing tool **200** with their fingers. In a protruding configuration, shown in FIG. 3B, wherein the gripper portion **320** of the scrubbing tool **200** extends above the scrubbing tool seat **210**, the scrubbing tool **200** can be grasped without a finger gap **340** being necessary to access the gripper portion **320** of the scrubbing tool **200**. In the protruding configuration, the bottom portion **350** of the scrubbing tool **200** can have a complementary shape to the scrubbing tool seat **210**, but the gripper portion **320** of the scrubbing tool **200** could have any shape since it is not disposed within the scrubbing tool seat **210**.

As shown in FIG. 4, the scrubbing tool **200** can be removably inserted into the scrubbing tool seat **210** in a bristles-up orientation as compared to the bristles-down orientation of FIG. 2. The scrubbing tool **200** can be shaped relative to the scrubbing tool seat **210** such that either orientation is possible as is a matter of user preference.

FIG. 5 is a perspective view of scrubbing tool **200**. The scrubbing tool **200** comprises a gripper portion **320** and a set of bristles **410** mounted on the scrubbing tool **200** opposite the gripper portion **320**. In an exemplary operation, the scrubbing tool **200** is non-dispensing and can be used by applying pretreating liquid directly to the stain and/or to the bristles **410**, and brushing the stained material against the bristles **410**, or brushing the tool **200** with bristles **410** against the stained material. In this embodiment, the scrubbing tool **200** need not comprise a reservoir or dispenser.

FIG. 6 is a perspective view of another exemplary embodiment of a scrubbing tool **600**. The scrubbing tool **600** is shown exploded and its constituent parts can be seen. The scrubbing tool **600** comprises a base **610** and a cap **620**. Complementary elements can be included to removably secure the cap **620** to the base **610**. For example, the base **610** and cap **620** can be configured with threads that can be screwed together, or edges that can snap together, although other coupling elements or methods can be used. As shown in FIG. 6, cap **620** has been removed from base **610** to reveal a reservoir **630** formed in the base **610**. In one example, the reservoir **630** is at least partially located in the base **610** and shaped to receive a replaceable container **640** of pretreating liquid or a chemistry pod. The container **640** can be inserted into the reservoir **630** and opened as the cap **620** is coupled to the base **610**. Alternatively, the reservoir **630** can be filled with pretreating liquid, for example, by opening the scrubbing tool **600** and pouring liquid directly into the reservoir **630**. In these embodiments, the scrubbing tool **600** can have a dispenser (not shown) that is operated by pushing on a compressible element **660** that activates a valve or conveys pressure to a pump fluidly coupled to the reservoir **630** to dispense the liquid in the reservoir **630**. While the compressible element **660** is shown on the cap **620**, other types and/or arrangements of dispensers can alternatively be used and incorporated into the scrubbing tool **600**.

It is noted that the scrubbing tool **600** illustrated in FIG. 6 is merely an illustrative example of a scrubbing tool **600**

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that can have a refillable reservoir for holding and dispensing pretreating liquid. Alternatively, the body of the scrubbing tool **200** as illustrated in FIG. **5** can comprise a single piece with no reservoir, and can be used after manually applying the pretreatment liquid to the bristles **410**, to the stain, or both. Other configurations and/or arrangements can also or alternatively be used.

FIG. **7A** illustrates an example scrubbing tool **200** in use. In this example, a user can place a stained fabric **710** to be treated on the scrubbing surface **31** and use any method of manual force to treat the stain on the fabric **710**. A user can apply a pretreating liquid directly to a stained fabric **710** or a pretreating liquid can be dispensed by the scrubbing tool **600** onto the stained fabric **710**. In either case, the user can manually scrub the fabric **710** with the scrubbing tool **200**. If the scrubbing tool **200** is removed from the scrubbing tool seat **210** for use, the scrubbing tool **200** can be returned to the scrubbing tool seat **210** upon completion of stain pretreatment.

In the example illustrated in FIG. **7B**, the scrubbing tool **200** need not be removed from the scrubbing tool seat **210** during use. Instead, a piece of stained fabric **710** being pretreated can be manually brushed across the bristles **410** using a sliding, circular, or other motion after applying pretreating liquid to one or both of the stain and the bristles **410**.

Although the invention has been described and illustrated in exemplary forms with a certain degree of particularity, it is noted that the description and illustrations have been made by way of example only. Numerous changes in the details of construction, combination, and arrangement of parts and steps can be made without deviating from the scope of the invention. Accordingly, such changes are understood to be inherent in the disclosure. The invention is not limited except by the appended claims and the elements explicitly recited therein. The scope of the claims should be construed as broadly as the prior art will permit. It should also be noted that all elements of all of the claims can be combined with each other in any possible combination, even if the combinations have not been expressly recited or claimed.

What is claimed is:

1. A fabric treating appliance comprising:
 - a cabinet defining an interior and having a top wall defining an access opening;
 - a cover movable relative to the cabinet between opened and closed positions to selectively close the access opening;
 - a tub located within the interior and having an open top aligned with the access opening;
 - a rotatable basket located within the tub and having a loading opening aligned with the open top and the access opening;
 - a top wall extending between at least one of the cabinet and the tub;
 - a scrubbing tool seat recessed in the top wall; and
 - a scrubbing tool comprising a gripper portion and a set of bristles mounted on the tool opposite the gripper portion, with the scrubbing tool removably disposed in the scrubbing tool seat such that the gripper portion is oriented up and a height of the gripper portion is such that at least a portion of the gripper portion extends above the top wall.
2. The fabric treating appliance of claim **1** wherein when the cover is in the closed position, the cover overlies the gripper portion.

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3. The fabric treating appliance of claim **2** wherein the cover does not contact the gripper portion in the closed position.

4. The fabric treating appliance of claim **1** wherein at least a portion of the scrubbing tool and the scrubbing tool seat are complementary in shape.

5. The fabric treating appliance of claim **1** wherein the top wall comprises a shroud and the scrubbing tool seat is located in the shroud.

6. The fabric treating appliance of claim **5** wherein at least a portion of the gripper portion extends above the shroud.

7. The fabric treating appliance of claim **1** wherein the seat comprises an aperture fluidly coupled to the tub for allowing excess liquid from the scrubbing tool to be drained through the aperture and into the tub.

8. The fabric treating appliance of claim **1** wherein the scrubbing tool comprises a cap portion removably coupled to a base portion, and a reservoir is at least partially located within the base portion.

9. The fabric treating appliance of claim **8** wherein the scrubbing tool comprises a compressible element.

10. The fabric treating appliance of claim **8** wherein the reservoir is configured to receive a removable chemistry pod.

11. The fabric treating appliance of claim **1** wherein the scrubbing tool comprises a refillable liquid reservoir.

12. The fabric treating appliance of claim **1** wherein a gap is maintained between the scrubbing tool seat and the gripper portion when the scrubbing tool is disposed in the scrubbing tool seat.

13. The fabric treating appliance of claim **1** wherein the scrubbing tool seat is located along a front portion of the top wall.

14. The fabric treating appliance of claim **1** wherein the top wall further comprises a scrubbing surface.

15. The fabric treating appliance of claim **14**, wherein the scrubbing surface is spaced adjacent from the scrubbing tool seat.

16. The fabric treating appliance of claim **14**, wherein the scrubbing surface is contiguous with at least a portion of an edge of the scrubbing tool seat.

17. The fabric treating appliance of claim **1** wherein all of the gripper portion lies above the top wall.

18. A fabric treating appliance comprising:
 - a cabinet defining an interior and having a top wall defining an access opening;
 - a cover movable relative to the cabinet between opened and closed positions to selectively close the access opening;
 - a tub located within the interior and having an open top aligned with the access opening;
 - a rotatable basket located within the tub and having a loading opening aligned with the open top and the access opening;
 - a top wall extending between at least one of the cabinet and the tub;
 - a scrubbing tool seat recessed in the top wall and comprising an aperture in the seat fluidly connected to the tub to define a drain in fluid communication with the tub; and
 - a scrubbing tool removably disposed in the scrubbing tool seat, wherein excess liquid from the scrubbing tool can be drained through the aperture and into the tub, and the scrubbing tool having a gripper portion oriented up relative to the seat and a height of the gripper portion is such that the at least a portion of the gripper portion extends above the top wall.

19. The fabric treating appliance of claim **18** wherein a gap is maintained between the scrubbing tool seat and the gripper portion when the scrubbing tool is disposed in the scrubbing tool seat.

20. The fabric treating appliance of claim **19** wherein all of the gripper portion lies above the top wall.

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